

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (canceled)

2. (currently amended) An earth leakage detection device for detecting earth leakage in an electrical distribution circuit and for actuating a circuit breaker when earth leakage is detected, the earth leakage detection device comprising:

a housing;

an earth leakage detection circuit mounted within said housing for detecting earth leakage in the electrical distribution circuit;

an electrically conductive strap arranged to conduct electrical current to the electrical distribution circuit, said electrically conductive strap for providing operating current to the earth leakage detection circuit; and

a dielectric test switch arranged between said electrically conductive strap and said earth leakage detection circuit, said dielectric test switch including a button disposed in said housing, wherein manipulating said button causes said dielectric test switch to stop the flow of electrical current from said electrically conductive strap to said earth leakage detection circuit during dielectric testing;

~~The earth leakage detection device of claim 1,~~ wherein said dielectric test switch includes:

a dielectric test cartridge arranged within said housing, said dielectric test cartridge having a clip disposed therein, said clip being in electrical connection with said electrically conductive strap and arranged to receive a pin extending from said earth leakage detection circuit; and

wherein manipulating said button moves said dielectric test cartridge to separate said clip from said pin to stop the flow of electrical current from said electrically conductive strap to said earth leakage detection circuit during dielectric testing.

3. (original) The earth leakage detection device of claim 2, wherein said dielectric test switch further includes:

a spring arranged to force said clips away from said pins during dielectric testing.

4. (original) The earth leakage detection device of claim 2, wherein said dielectric test switch further includes:

a dielectric test cartridge extraction lever pivotally secured within said housing, said dielectric test cartridge extraction lever having a first end arranged proximate said button and a second end arranged beneath a tab extending from said dielectric test cartridge for moving said dielectric test cartridge.

5. (original) The earth leakage detection device of claim 2, wherein said dielectric test switch further includes:

a pair of resiliently flexible legs secured within said housing, each of said resiliently flexible legs having a detent formed on a free end; and

a protrusion extending from said dielectric test cartridge, said protrusion being received between said resiliently flexible legs for holding said dielectric test cartridge in place.

6. (currently amended) The earth leakage detection device of claim ~~[[1]]~~ 2, further comprising:

a trip/reset mechanism mounted within said housing, said trip/reset mechanism being configured to actuate the circuit breaker when said button is manipulated.

7. (original) The earth leakage detection device of claim 4, further comprising:

a trip/reset mechanism mounted within said housing, said trip/reset mechanism being configured to actuate the circuit breaker when said button is manipulated.

8. (original) The earth leakage detection device of claim 7, wherein said dielectric test switch further includes:

a lever arm pivotally secured within said housing, said lever arm including a first end disposed proximate said second end of said dielectric test cartridge extraction lever, said lever arm further including a second end arranged proximate said trip/reset mechanism, wherein said lever arm causes said trip/reset mechanism to actuate the circuit breaker when said button is manipulated.

9-22. (canceled)

23. (new) An earth leakage detection device for detecting earth leakage in an electrical distribution circuit and for actuating a circuit breaker when earth leakage is detected, the earth leakage detection device comprising:

a housing;

an earth leakage detection circuit;

an electrically conductive strap arranged to conduct electrical current to the electrical distribution circuit, said electrically conductive strap for providing operating current to the earth leakage detection circuit; and

a dielectric test switch arranged in signal communication with said electrically conductive strap and said earth leakage detection circuit, said dielectric test switch including an actuator disposed at said housing, wherein manipulating said actuator causes said dielectric test switch to interfere with the flow of electrical current from said electrically conductive strap to said earth leakage detection circuit;

wherein said dielectric test switch further includes:

a dielectric test cartridge arranged within said housing, said dielectric test cartridge having a first conductive portion, said first conductive portion being in electrical

communication with said electrically conductive strap and arranged to electrically communicate with a second conductive portion disposed at said earth leakage detection circuit; and

wherein manipulating said actuator moves said dielectric test cartridge in a direction to separate said first conductive portion from said second conductive portion to interfere with the flow of electrical current from said electrically conductive strap to said earth leakage detection circuit during dielectric testing, thereby resulting in the registration of an earth leakage.